

# Muon Tracking Drawing Numbers

Walter Sondheim  
*Los Alamos National Laboratory, Los Alamos, NM 87545*

(phenix-muon-97-4; Submitted 23 May 1997)

## Overview

All sub-systems of PHENIX have been allocated blocks of numbers to be used for engineering drawings. As the final designs for Muon Tracking begin to take shape it is necessary to begin to use that group of drawing numbers in a systematic way. This note describes in detail the drawing numbers for the mechanics of the Muon Tracking.

The drawing numbers which have been allocated to Muon Tracking are as follows:

002-0212-000 to 002-0212-999 for Muon Tracking Mechanics  
002-0312-000 to 002-0312-999 for Muon Tracking FEE

## Muon Tracking Mechanics Drawing Numbers

In order to impliment the numbering scheme for Muon Tracking, we will adopt a further breakdown for mechanical draws of Muon Tracking as described below.

### Numbering Groups

All mechanical drawings will start with a prefix of **002-0212-**. The final three digits will be assigned as shown in the following table:

<b>From</b>	<b>To</b>	<b>Drawings For</b>
000	099	Station 1 North, detector and mounting
100	199	Station 1 South, detector and mounting
200	299	Station 2 North, detector and mounting
300	399	Station 2 South, detector and mounting
400	499	Station 3 North, detector and mounting
500	599	Station 3 South, detector and mounting
600	699	North Arm Fixtures, rigging and installation
700	799	South Arm Fixtures, rigging and installation
800	899	Alignment System for North and South Arms
900	999	Spare

A further breakdown of the numbering scheme for a specific detector should be given. Two of those will be done as shown in the next sections.

### Station 2 North

<b>From</b>	<b>To</b>	<b>Drawing Contents</b>
200	219	Conceptual layouts for cathode foils and anode wire planes
220	239	Outer detector frames, front and back
240	259	Inner planes, FR-4/Extruded aluminum bars cathodes and anodes, and spacers
260	269	Front Spider, and mounting details
270	279	Rear Spider, and assembly details
280	289	Drill Jigs
290	299	Spare

### Station 3 North

From	To	Drawing Contents
400	419	Conceptual layouts for cathode FR-4 planes and anode wire planes
420	429	Nomex honeycomb core panels
430	439	FR-4 Cathode strip planes
440	449	Inner detector spacers and strips
450	459	Cathode and Anode readout board laminates
460	469	Mounts for detectors
470	479	Drill Jigs
480	499	Spare

### **Summary**

This document will be used for assigning the drawing numbers in the Muon Arms Tracking sub-system. As the drawings for other parts of the sub-system start to be produced, we will update this document to describe that set of drawing numbers, as well.